Valve Regulated Lead Acid Battery

WP24-12

Specifications

Nominal Voltage(V)

12V

Nominal Capacity

20 hour rate	(1.2A	to	10.50V)	24Ah
10 hour rate	(2.28A	to	10.50V)	22.8Ah
5 hour rate	(4.08A	to	10.20V)	20.4Ah
1 C	(24A	to	9.60V)	12.8Ah
3 C	(72A	to	9.60V)	8.4Ah

Weight

Approx. 8.0kg(17.6Lbs.)

Internal Resistance (at 1KHz)

Approx. 11 mΩ

Maximum Discharge Current for

5 seconds: 360A

Charging Methods at 25℃(77℉)

Cycle use:

Charging Voltage	14.4 to 15.0V
Coefficient -5.0mV/℃/cell	
Maximum Charging Current：	7.2A

Standby use:

Float Charging Voltage	13.5 to 13.8V
Coefficient -3.0mV/℃/cell	

Operating Temperature Range

Charge	-15℃(5℉)	to	40℃(104℉)
Discharge	-15℃(5℉)	to	50℃(122℉)
Storage	-15℃(5℉)	to	40℃(104℉)

Charge Retention (shelf life) at 20℃(68℉)

1 month	92%
3 month	90%
6 month	80%

Case Material

ABS UL94 HB

Option: Flammability resistance of (UL94 V-0)

Design Life

6-9 Years.

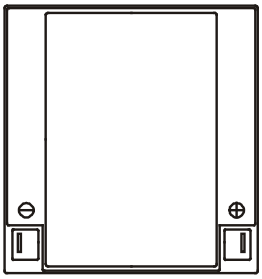
Terminal

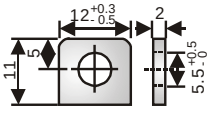
F3

Dimensions

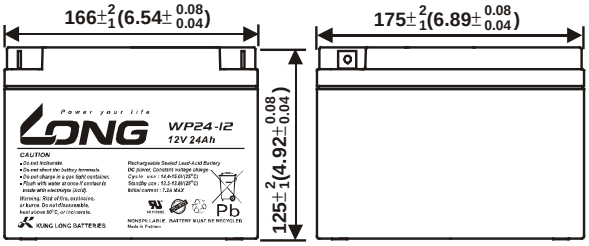
Length (L)	166+2-1 (6.54+0.08-0.04)
Width (W)	175+2-1 (6.89+0.08-0.04)
Height (H)	125+2-1 (4.92+0.08-0.04)
Overall Height (HT)	125+2-1 (4.92+0.08-0.04)

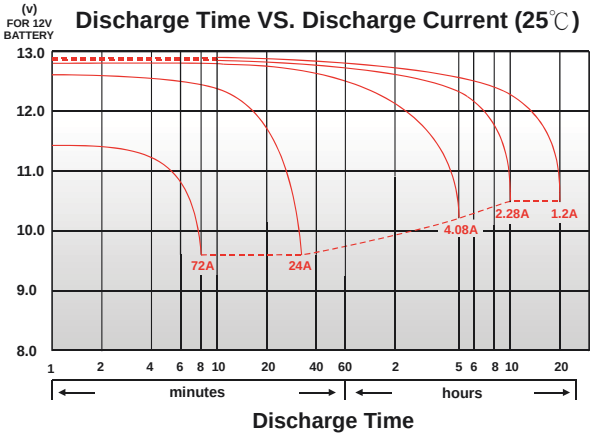
mm(inch)





F3
(M5 Bolts)





Power your life

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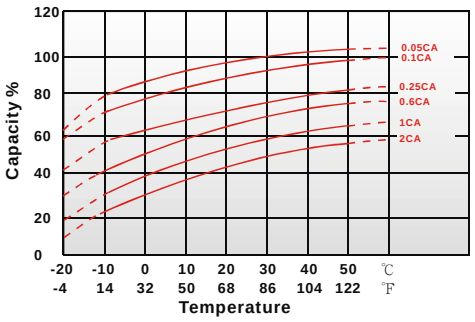
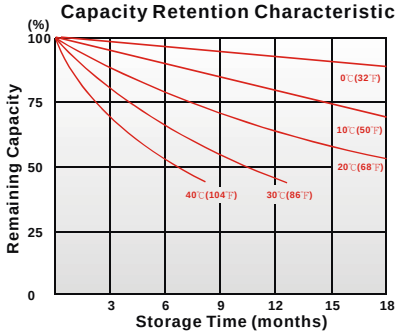
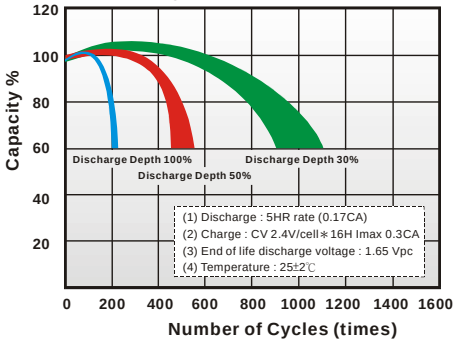
Effect of Temperature on Capacity 25℃(77℉)



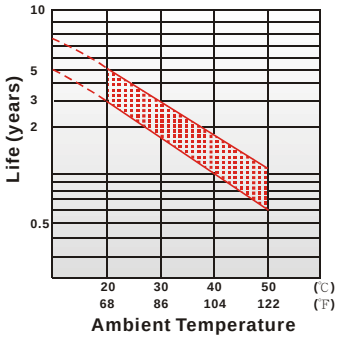
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



- PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25℃(77℉)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	114	129	142	155	159	165	177
10	min	88.2	99.7	106	111	114	117	122
15	min	70.2	76.5	80.8	84.3	86.7	88.2	91.3
30	min	41.0	44.5	46.5	48.0	48.8	49.5	50.3
60	min	27.0	28.5	29.3	30.0	30.2	30.5	30.8
120	min	14.6	15.4	15.9	16.2	16.4	16.5	16.7
180	min	12.2	12.7	12.9	13.1	13.1	13.2	13.3
240	min	9.82	10.2	10.4	10.5	10.6	10.6	10.7
300	min	8.47	8.70	8.82	8.93	8.97	9.02	9.05
600	min	4.93	5.12	5.22	5.30	5.32	5.35	5.38
1200	min	2.53	2.62	2.68	2.73	2.75	2.77	2.78

- Discharge Rates in Amperes to Various End Voltages at 25℃(77℉)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	70.2	82.3	90.7	96.1	98.3	101	105
10	min	45.8	50.4	54.6	58.8	60.5	62.4	65.6
15	min	37.9	41.1	43.7	46.2	47.3	48.2	49.8
30	min	20.8	23.2	24.7	25.6	26.2	26.9	27.7
60	min	14.5	15.0	15.3	15.5	15.6	15.7	15.8
120	min	7.65	7.96	8.08	8.19	8.22	8.26	8.31
180	min	6.21	6.41	6.50	6.53	6.55	6.58	6.62
240	min	4.97	5.07	5.14	5.20	5.22	5.25	5.28
300	min	4.22	4.35	4.40	4.44	4.45	4.47	4.49
600	min	2.48	2.56	2.60	2.61	2.62	2.63	2.64
1200	min	1.29	1.33	1.35	1.36	1.37	1.38	1.39

All data on the spec. sheet is an average value:
The tolerance range : X<6min(+15%~-15%), 6min≦X<10min(+12%~-12%),10min ≦X < 60min(+8% ~-8%), X≧60min(+5%~-5%)

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